## Integrated Program Review 2

## Corps and Reclamation Operations and Maintenance

Webinar - Dec. 14, 2016

Phone Bridge: 877-336-1828

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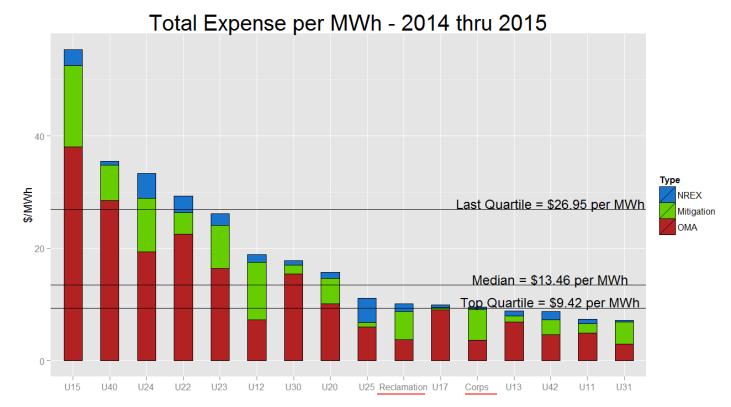
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## **Summary**

- The Federal Columbia River Power System is one of the lowest cost generation systems in North America.
- Labor cost increases account for the largest portion of cost growth for operations and maintenance expenses.
- The Wage Grade and Trades and Crafts pay systems have increased much more than the General Schedule pay system.

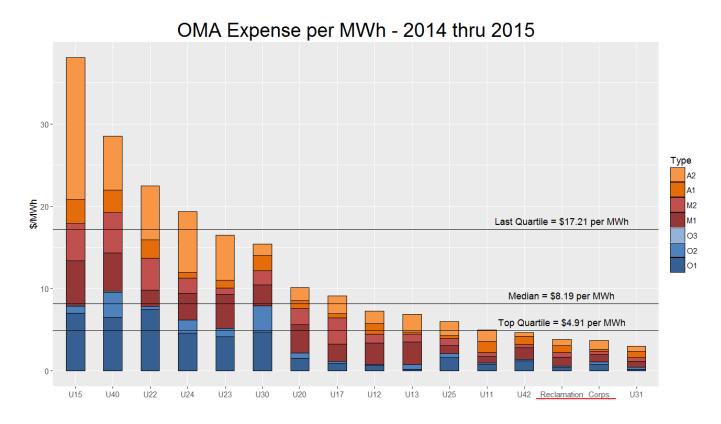
## **Hydropower Benchmarking**

- The FCRPS is among the lowest cost hydropower fleets in EUCG.
  - The EUCG database contains nearly half of all North American hydro capacity.
  - Mitigation costs, which include fish & wildlife, recreation, and cultural resources, are very high relative to others in the industry.



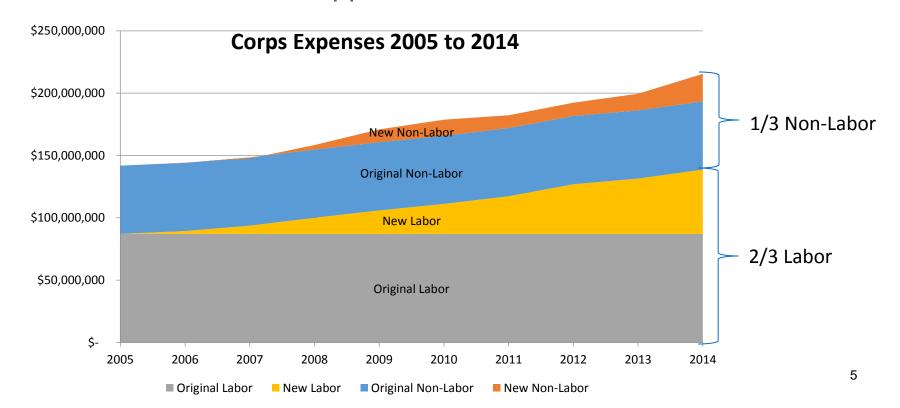
## **Hydropower Benchmarking**

- Removing mitigation costs and focusing on operation, maintenance and administrative costs, show the FCRPS to be one of the lowest-cost fleets in North America.
- This despite our capital re-investment being at one of the lowest rates in the industry for years.



## **US Army Corps of Engineers Hydropower and Joint Expense**

- In the ten years from fiscal year 2005 to FY 2014, Corps labor expenses rose 59 percent.
- Non-labor expenses rose 40 percent in that same period.
  Non-labor includes supplies, materials and contracts.

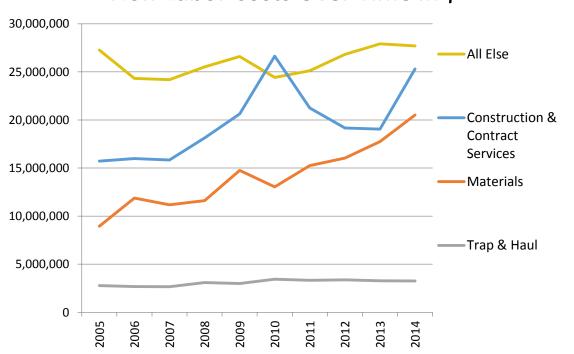


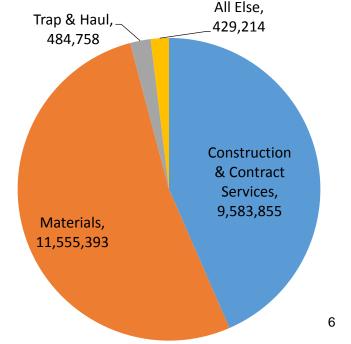
### **USACE Non-Labor Costs**

 Construction/contract services and materials have seen the largest increase in costs, with materials more than doubling in ten years.



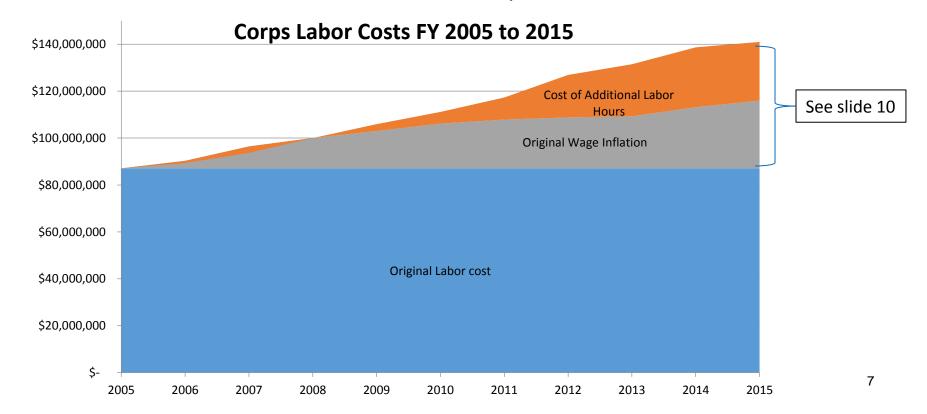
#### Non-Labor Cost Increases '05 to '14





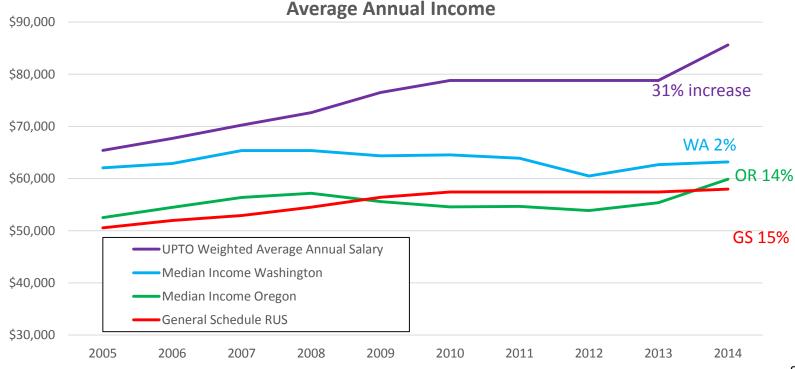
## **USACE Labor Costs**

- The total cost for power and joint labor has increased 62 percent in 11 years.
- Of that increase, inflation of wages for the positions that existed in FY 2005 is 54 percent.
- Additional labor hours account for the other 46 percent of the labor cost increase.



## Wage Inflation for the Pacific Northwest

- Wages for T&C and Wage Grade employees are determined by a wage survey of peers in the region.
- The wages have risen at twice the rate of GS employees and even more compared to average wages for all workers in the region.



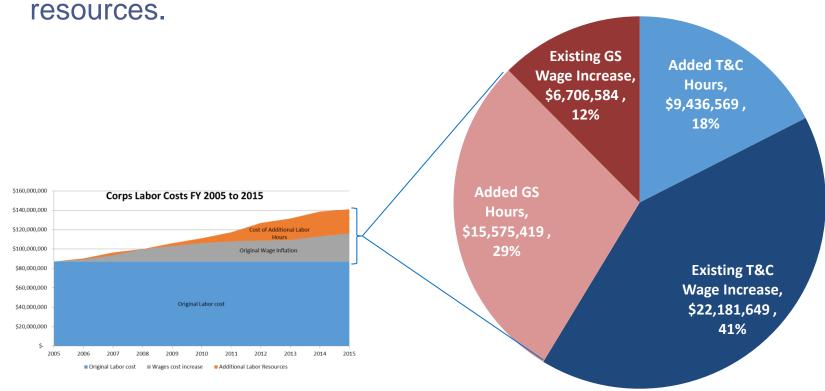
# General Schedule vs Trades & Crafts and Wage Grade Pay Systems for USACE

- 35 percent of all labor costs go to GS employees.
  - GS employees get pay increases with the rest of the federal work force by executive mandate.
- 65 percent of all labor costs go to <u>T&C or Wage Grade employees</u>.
  - T&C and WG employees in the region get increases through a survey of wages for peers in the region.
- Wage rates for <u>GS employees</u> have increased *15 percent* since 2005, before the recession, to 2014.
- Wages for <u>T&C</u> and <u>WG</u> have increased an average of *31 percent* in the same period, twice what GS employees received.

## **USACE Labor Cost Increases '05 to '15**

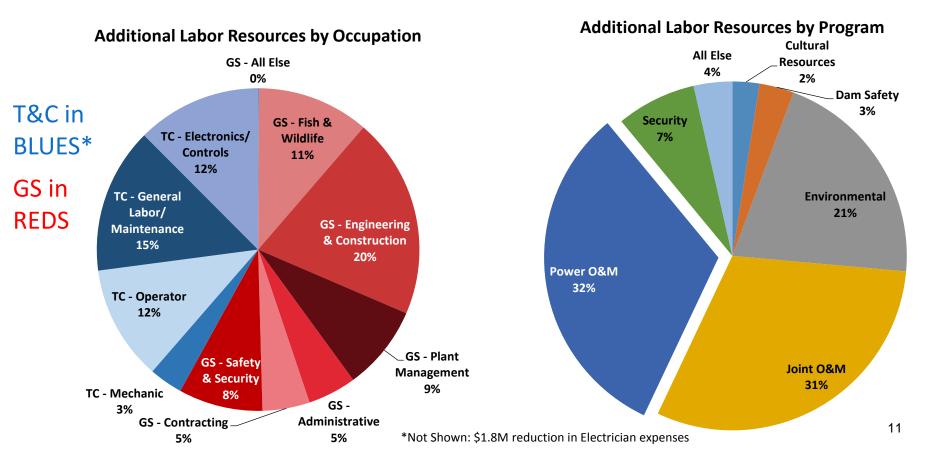
 Of the \$53.9 million increase in labor costs, wage increases for existing employees accounts for \$28.9 million.

The remaining \$25 million is due to additional labor



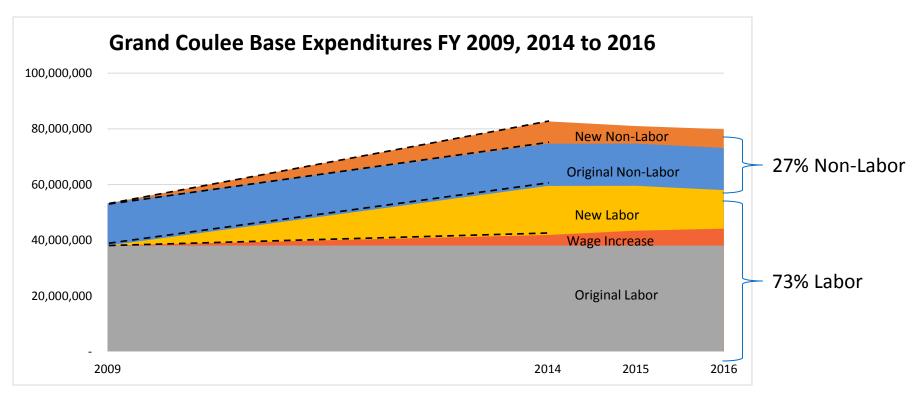
### **USACE Increases in Labor Hours**

- The funding required for additional labor resources added in the last ten years is 62 percent GS labor and 38 percent WG/T&C.
- This funding accounts for \$25 million in annual costs. Below is the breakout of this \$25 million by occupation and by program:



## **BOR – Grand Coulee base hydropower** and joint expenses

- In the nine years from FY 2008 to FY 2016, Reclamation labor expenses rose 63 percent.
- Of that total cost growth, additional labor resources from '09 to '15 account for 56 percent.
- Non-labor expenses account for 44 percent of that growth.

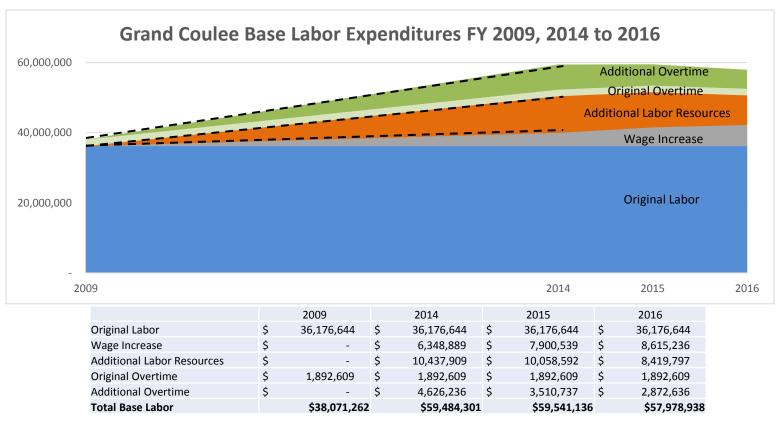


<sup>\*</sup>This graph includes Base, Overtime, and other employees in BOR which charged to the Grand Coulee Base Program.

<sup>\*\*</sup>The dashed line represents projected expenditures

### **BOR – Grand Coulee base labor costs**

 Additional labor resources have increased due to needs identified in the 2012 independent staffing study and an increased emphasis in safety, WECC/NERC, environmental compliance and IT security.



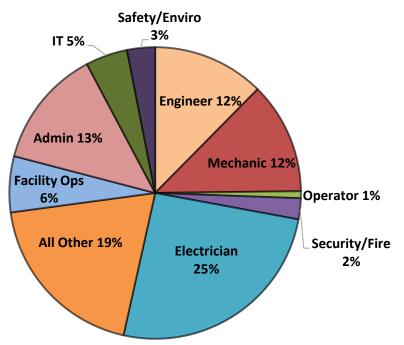
<sup>\*</sup>This graph includes base, overtime and other employees in BOR which charged to the Grand Coulee base program.

<sup>\*\*</sup>The dashed line represents projected expenditures.

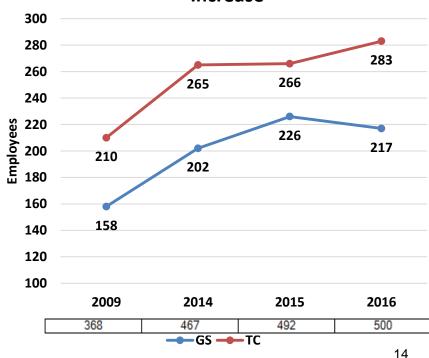
## **BOR – Grand Coulee increase in labor** resources

Includes all funding sources – power and non-Power, capital and expense.

#### Grand Coulee FY09 to FY16 Additional Labor **Personnel by Occupation**



#### **Grand Coulee T&C and GS Employee Increase**



## **BOR – Grand Coulee General Schedule** and Trades and Crafts pay system

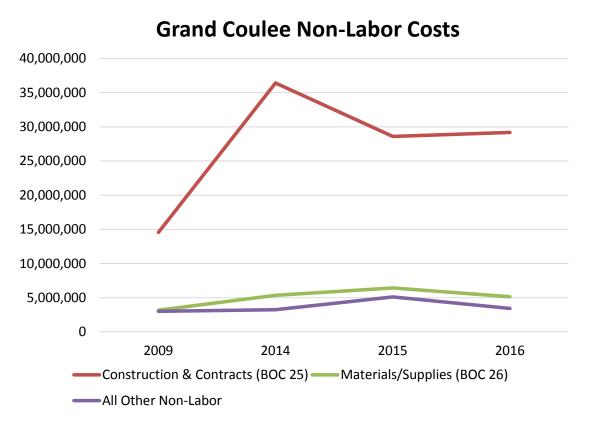
- In FY 2016 at Grand Coulee:
  - 43 percent of all employees are GS employees and 57 percent are T&C or WG.
  - GS employees are 32 percent of labor costs and T&C or WG are 68 percent of labor costs.
- GS employees get pay increases with the rest of the federal work force.
- T&C and WG employees in the region get increases through a survey of wages.
- Wages for GS employees have increased 7.4 percent since 2009.
- Wages for T&C and WG have increased an average of 25 percent in the same period.

#### Historical Wage Rate Increases

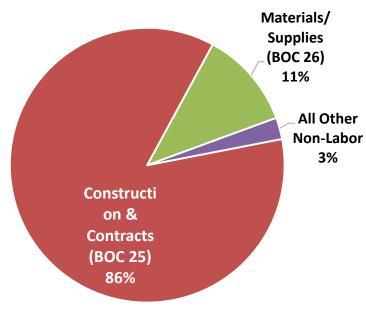
	2009	2010	2011	2012	2013	2014	2015	2016	Total 09-16	Annualized
T&C	4.9%	2.0%	3.0%	3.5%	1.5%	3.0%	5.1%	2.0%	25.0%	3.1%
GS	2.9%	1.5%	0.0%	0.0%	0.0%	1.0%	1.0%	1.0%	7.4%	0.9%

### **BOR – Grand Coulee non-labor costs**

- Construction and contract services as well as materials costs have seen the largest increases.
- Includes base and non-routine costs.



## **Grand Coulee Non-Labor Cost Increases from '09 to '16**



## **Conclusions**

- Wage growth for Trades and Crafts employees has far outpaced inflation, a significant driver for overall O&M budget increases.
- Although some position types have been eliminated, additional employees have been brought on to support critical programs and new work as described in previous IPR presentations.
- Construction and materials costs have seen significant growth, particularly as Reclamation's non-routine program has ramped up.

### **Financial Disclosure**

 This information was made publicly available on Dec. 9, 2016, and contains information not sourced directly from BPA financial statements.